

[illegible]


```
0001 0 %TITLE 'Processes .INDEX, .ENT, and .SUBI directives.'
0002 0 MODULE makndx ( IDENT = 'V04-000'
P 0003 0 %BLISS32C, ADDRESSING_MODE (EXTERNAL = LONG_RELATIVE,
0004 0 NONEXTERNAL = LONG_RELATIVE)
0005 0 ) =
0006 1 BEGIN
0007 1
0008 1 *****
0009 1 *
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0027 1 *
0028 1 *
0029 1 *****
0030 1
0031 1 ++
0032 1 FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS
0033 1
0034 1 ABSTRACT: Processes the .INDEX, .ENTRY, and .SUBINDEX commands.
0035 1
0036 1 ENVIRONMENT: Transportable
0037 1
0038 1 AUTHOR: R.W.Friday CREATION DATE: June, 1978
0039 1
0040 1
```

```

: 42      0041 1 %SBTTL 'Revision History'
: 43      0042 1
: 44      0043 1   MODIFIED BY:
: 45      0044 1
: 46      0045 1       018      REM00018      Ray Marshall      17-November-1983
: 47      0046 1      Modified the external definition of ATABLE to use the new
: 48      0047 1      macro ATABLE_DEFINITION defined in ATCODE.REQ.
: 49      0048 1
: 50      0049 1       017      KAD00017      Keith Dawson      23-March-1983
: 51      0050 1      Changed GCA_FLIP bit to (.gca_op_dev EQL op_dev_flip).
: 52      0051 1
: 53      0052 1       016      KFA00016      Ken Alden          16-March-1983
: 54      0053 1      SCA must now be initialized by hand all the time
: 55      0054 1      since DSR is now capable of doing SAVE/RESTORE.
: 56      0055 1
: 57      0056 1       015      KFA00015      Ken Alden          10-March-1983
: 58      0057 1      Fixed bug with .X, CHSSTR should not have been called.
: 59      0058 1
: 60      0059 1       014      RER00014      Ron Randall        07-March-1983
: 61      0060 1      Global edit of all modules. Updated module names, idents,
: 62      0061 1      copyright dates. Changed require files to BLISS library.
: 63      0062 1
: 64      0063 1  !--
: 65      0064 1
```



```

: 67      0065 1 %SBTTL 'Module Level Declarations'
: 68      0066 1
: 69      0067 1
: 70      0068 1 | TABLE OF CONTENTS:
: 71      0069 1
: 72      0070 1 | INCLUDE FILES:
: 73      0071 1
: 74      0072 1 LIBRARY 'NXPORT:XPORT';      | XPORT Library
: 75      0073 1 REQUIRE 'REQ:RNODEF';      | RUNOFF variant definitions
: 76      0204 1
: 77      U 0205 1 %IF DSRPLUS %THEN
: 78      U 0206 1 LIBRARY 'REQ:DPLLIB';      | DSRPLUS BLISS Library
: 79      0207 1 %ELSE
: 80      0208 1 LIBRARY 'REQ:DSRLIB';      | DSR BLISS Library
: 81      0209 1 %FI
: 82      0210 1
: 83      0211 1 |
: 84      0212 1 | EXTERNAL REFERENCES:
: 85      0213 1
: 86      0214 1 EXTERNAL LITERAL
: 87      0215 1 RINTES : UNSIGNED (8);
: 88      0216 1
: 89      0217 1 EXTERNAL
: 90      0218 1 atable : atable_definition, | Action table. Used to identify what type of
: 91      0219 1 | action is to be taken on encountering any
: 92      0220 1 | given character.
: 93      0221 1 FLGT : FLAG_TABLE,
: 94      0222 1
: 95      U 0223 1 %IF DSRPLUS %THEN
: 96      U 0224 1 FS01 : FIXED_STRING,
: 97      0225 1 %FI
: 98      0226 1
: 99      0227 1 GCA : GCA_DEFINITION,
: 100     0228 1 IRA : FIXED_STRING,
: 101     0229 1 MRA : REF FIXED_STRING,
: 102     0230 1 SCA : SCA_DEFINITION,
: 103     0231 1 TSF : TSF_DEFINITION,
: 104     0232 1 XMRA : FIXED_STRING,
: 105     0233 1 XTSF : VECTOR;
: 106     0234 1
: 107     0235 1 EXTERNAL ROUTINE
: 108     0236 1 ENDWRD,
: 109     0237 1 OFT,
: 110     0238 1 OUTLIN,
: 111     0239 1 RSKIPS,
: 112     0240 1 SCANT,
: 113     0241 1 SETCAS,
: 114     0242 1 SUBXR;
: 115     0243 1
: 116     U 0244 1 %IF DSRPLUS %THEN
: 117     U 0245 1 EXTERNAL ROUTINE
: 118     U 0246 1 ENDCMT,
: 119     U 0247 1 PUTATT,
: 120     U 0248 1 CHSSTR,
: 121     U 0249 1 WRATTR,
: 122     U 0250 1 XPLUS;
: 123     0251 1 %FI
```

MAKNDX
V04-000

Processes .INDEX, .ENT, and .SUBI directives.
Module Level Declarations

M 11
16-Sep-1984 00:56:25
14-Sep-1984 13:07:04

VAX-11 Bliss-32 V4.0-742
[RUNOFF.SRC]MAKNDX.BLI;1

Page 4
(3)

```
: 124      0252 1 |  
: 125      0253 1 | OWN STORAGE:  
: 126      0254 1 |  
: 127      0255 1 | OWN  
: 128      0256 1 | PP_SCA : $H_R_SCA_BLOCK;    !Used in PUSH_SCA, POP_SCA macros (defined in SCA.REQ).
```



```
0257 1 GLOBAL ROUTINE MAKNDX (HANDLER_CODE, DO_INDEXING) : NOVALUE =
0258 1
0259 1 ++
0260 1 FUNCTIONAL DESCRIPTION:
0261 1
0262 1 See ABSTRACT, above.
0263 1
0264 1 FORMAL PARAMETERS:
0265 1
0266 1 HANDLER_CODE - The command to be processed.
0267 1 DO_INDEXING - If FALSE, the scan is done but no index entry is made.
0268 1
0269 1 IMPLICIT INPUTS: None
0270 1
0271 1 IMPLICIT OUTPUTS: None
0272 1
0273 1 ROUTINE VALUE:
0274 1 COMPLETION CODES: None
0275 1
0276 1 SIDE EFFECTS: None
0277 1 --
0278 1
0279 2 BEGIN
0280 2 LOCAL
0281 2 SCA_PARA_COPY,
0282 2 SCA_INDENT_COPY,
0283 2 HOLD_IND_FLAG,
0284 2 HOLD_IND_EFLAG,
0285 2 SCA_COPY: SCA_DEFINITION; !Used to preserve SCA.
0286 2
0287 2 LOCAL
0288 2 MRA_TEMP : VECTOR [4 + CH$ALLOCATION (1000)], !Temporary MRA area
0289 2 TSF_TEMP : VECTOR [TSF_SIZE]; !Temporary TSF
0290 2
0291 2 LOCAL
0292 2 MRA_ADDRESS, !Preserve interrupted MRA
0293 2 TSF_ADDRESS; !Preserve interrupted TSF
0294 2
0295 2 LOCAL
0296 2 XTN; !Computed transaction number for index entry.
0297 2
0298 2 %IF DSRPLUS %THEN
0299 2 LOCAL
0300 2 AN_XYPLUS;
0301 2
0302 2 AN_XYPLUS = 0;
0303 2 %FI
0304 2
0305 2 XTN = 0; !Assume it's a .ENTRY command.
0306 2 !No transaction number is needed for .ENTRY commands, since they
0307 2 !get no page number in the index. Also, if indexing commands
0308 2 !are to be ignored, no transaction number is needed either.
0309 2
0310 2 IF .DO_INDEXING
0311 2 AND-(!HANDLER_CODE NEQ H_ENTRY)
0312 2
0313 3 %IF DSRPLUS %THEN
```



```
187 U 0314 3 AND (.HANDLER_CODE NEQ H_YPLUS)
188 0315 3 %F1
189 0316 3
190 0317 3 THEN
191 0318 3 BEGIN
192 0319 3 ! Compute the transaction number associated with this entry.
193 0320 3
194 0321 3 XTN = .GCA_NORMAL_XTN;
195 0322 3 GCA_NORMAL_XTN = .GCA_NORMAL_XTN + 1; !Bump for next index entry
196 0323 3
197 0324 3 !The page number associated with this index entry is the same
198 0325 3 !as that of the word being worked on.
199 0326 3
200 0327 3 IF .SCA_WRD_F_XTN EQL 0
201 0328 3 THEN
202 0329 3 SCA_WRD_F_XTN = .XTN;
203 0330 3
204 0331 3 IF .XTN NEQ 0
205 0332 3 THEN
206 0333 3 SCA_WRD_L_XTN = .XTN;
207 0334 3
208 0335 3 END;
209 0336 3
210 0337 3 RSKIPS (IRA); !Skip spaces and tabs preceeding the index item(s)
211 0338 3
212 0339 3 HOLD_IND_FLAG = .FLGT [IND_FLAG, FLAG_CHARACTER]; !Preserve <INDEX flag> status.
213 0340 3 HOLD_IND_EFLAG = .FLGT [IND_FLAG, FLAG_ENABLED];
214 0341 3 OFT (H_NO_FLAGS_INDE, IND_FLAG); !Disable <INDEX flag>
215 0342 3
216 0343 3 IF .FLGT [SBX_FLAG, FLAG_ENABLED] AND .SCA_FLAGS
217 0344 3 THEN
218 0345 3 !Enable <SUBINDEX flag> recognition. The <SUBINDEX flag> temporarily
219 0346 3 !occupies areas reserved for the <INDEX flag>.
220 0347 3 BEGIN
221 0348 3 FLGT [IND_FLAG, FLAG_CHARACTER] = .FLGT [SBX_FLAG, FLAG_CHARACTER];
222 0349 3 FLGT [IND_FLAG, FLAG_ENABLED] = TRUE;
223 0350 3 ATABLE [.FLGT [SBX_FLAG, FLAG_CHARACTER]] = A_FLAG;
224 0351 3 END;
225 0352 3
226 U 0353 3 %IF DSRPLUS %THEN
227 UU 0354 3 IF .HANDLER_CODE EQL H_XPLUS OR .HANDLER_CODE EQL H_YPLUS
228 UU 0355 3 THEN
229 UU 0356 3 BEGIN
230 UU 0357 3 LOCAL
231 UU 0358 3 STATUS;
232 UU 0359 3
233 UU 0360 3 STATUS = XPLUS (.HANDLER_CODE);
234 UU 0361 3
235 UU 0362 3 IF .STATUS
236 UU 0363 3 THEN
237 UU 0364 3 BEGIN
238 UU 0365 3 !
239 UU 0366 3 !Note the fact that an .XP/.YP was given, so we can generate
240 UU 0367 3 !a warning message if .DX/.PX is ever used after .XP/.YP.
241 UU 0368 3 GCA_XP_EVER = TRUE;
242 UU 0369 3 !
243 U 0370 3 !Mark this entry as an .XP/.YP entry. This will allow DOFLG
```



```
244 U 0371 2      !to determine if it should generate escape sequence for the
245 U 0372 2      !Nopermute flag (as it should if the command is .XP/.YP), or
246 U 0373 2      !simply eat it (as it should for .X/.Y).
247 U 0374 2      AN_XYPLUS = TRUE;
248 U 0375 2      !
249 U 0376 2      END
250 U 0377 2      ELSE
251 U 0378 2      BEGIN
252 U 0379 2      !The syntax of user-supplied attributes is illegal (mismatched
253 U 0380 2      !parens). In this case we cannot distinguish what is intended
254 U 0381 2      !for the index entry, so advance past the rest of the text and
255 U 0382 2      !return.
256 U 0383 2      ENDCMT ();
257 U 0384 2      RETURN;
258 U 0385 2      END;
259 U 0386 2
260 U 0387 2      END;
261 U 0388 2
262 U 0389 2      %FI
263 U 0390 2      PUSH_SCA;      !Save the SAVED SCA bits.
264 U 0391 2
265 U 0392 2      INCR I FROM 0 TO SCA_SIZE - 1 DO
266 U 0393 2          SCA_COPY [.I] = .SCA [.I];      !Save SCA
267 U 0394 2
268 U 0395 2      !Initialize the SCA before doing SCANT
269 U 0396 2      SCA_LM = 0;
270 U 0397 2      SCA_RM = 150;      !Set wide right margin so won't start a new line.
271 U 0398 2      SCA_X FLAG = FALSE;      !Turn off index flag now in case we are in the middle of an
272 U 0399 2      SCA_SPACING = 1;      !Single spacing avoids spurious intermediate code.
273 U 0400 2      SETCAS (.GCA_XCASE);      !Use case translation rules defined by .XLOWER or .XUPPER co
274 U 0401 2      SCA_FC = TRUE;      !This is the first character for the MRA.
275 U 0402 2      SCA_FC CASE = TRUE;      !Use first character-of-word case rules.
276 U 0403 2      SCA_XROUTINE = TRUE;      !TRUE ==> use SUBXR for index phrase processing routine.
277 U 0404 2      SCA_PRESCAN = TRUE;      !A ':' terminates the scan.
278 U 0405 2      SCA_PARA COPY = .SCA PARA PND;      !Don't let FCIMRA do any indentation, etc.
279 U 0406 2      SCA_INDENT COPY = .SCA_INDENT;
280 U 0407 2      SCA_PARA PND = FALSE;
281 U 0408 2      SCA_INDENT = 0;
282 U 0409 2      SCA_FILL = FALSE;
283 U 0410 2      SCA_JUSTIFY = FALSE;
284 U 0411 2
285 U 0412 2      !Preserve the addresses of the structures to which these items refer.
286 U 0413 2      MRA_ADDRESS = .MRA;
287 U 0414 2      TSF_ADDRESS = .TSF;
288 U 0415 2      !Now switch working buffers, so that text currently being accumulated
289 U 0416 2      !is not disturbed.
290 U 0417 2      MRA = MRA_TEMP;
291 U 0418 2      TSF = TSF_TEMP;
292 U 0419 2      !Now manually set up MRA, to look like a FIXED STRING.
293 U 0420 2      FS_MAXSIZE (MRA) = 1000;
294 U 0421 2      FS_INIT (MRA);      !And that finishes the initialization.
295 U 0422 2
296 U 0423 2      !Now initialize TSF for SCANT.
297 U 0424 2      INCR I FROM 0 TO TSF_SIZE - 1 DO
298 U 0425 2          TSF [.I] = 0;
299 U 0426 2
300 U 0427 2      %IF DSRPLUS %THEN
```

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: 301      U 0428 2      TSF_XYPLUS = .AN_XYPLUS;
: 302      0429 2      %FI
: 303      0430 2
: 304      0431 2      TSF_INDEX = TRUE;
: 305      0432 2      TSF_FIRST_XTN = .XTN;
: 306      0433 2
: 307      0434 2      SCA_WRD_INT_L = 0;
: 308      0435 2      SCA_WRD_EXT_L = 0;
: 309      0436 2      SCA_WRD_ISEQN = 0;
: 310      0437 2      SCA_WRD_DRAFT = 0;
: 311      0438 2      SCA_WRD_DRAFT_F = 0;
: 312      0439 2      SCA_WRD_BARS = 0;
: 313      0440 2      SCA_WRD_BAR_CHR = 0;
: 314      0441 2      SCA_WRD_SEQN_F = 0;
: 315      0442 2      SCA_WRD_IPAGEN = 0;
: 316      0443 2      SCA_WRD_FOOTW = 0;
: 317      0444 2      SCA_WRD_F_XTN = 0;
: 318      0445 2      SCA_WRD_L_XTN = 0;
: 319      0446 2      SCA_WRD_LC_PNCT = 0;
: 320      0447 2      SCA_WRD_LST_SP = 0;
: 321      0448 2      SCA_WRD_LST_JUS = 0;
: 322      0449 2      SCA_WRD_LST_UND = 0;
: 323      0450 2      SCA_WRD_PNTR = .FS NEXT (MRA);
: 324      0451 2      SCA_WRD_CPEND = RINTES;
: 325      0452 2      FS_START (MRA) = .SCA_WRD_PNTR;
: 326      0453 2
: 327      0454 2      !Now let SCANT process the command.
: 328      0455 2      SCANT ();
: 329      0456 2
: 330      0457 2      !Restore <INDEX flag> to former status.
: 331      0458 2      OFT (H_NO_FLAGS_INDE, IND_FLAG);
: 332      0459 2      FLGT [IND_FLAG, FLAG_CHARACTER] = .HOLD_IND_FLAG;
: 333      0460 2      FLGT [IND_FLAG, FLAG_ENABLED] = .HOLD_IND_EFLAG;
: 334      0461 2
: 335      0462 2      IF .FLGT [IND_FLAG, FLAG_ENABLED]
: 336      0463 2      AND .SCA_FLAGS
: 337      0464 2      THEN
: 338      0465 2      ATABLE [.FLGT [IND_FLAG, FLAG_CHARACTER]] = A_FLAG;
: 339      0466 2
: 340      0467 2      !Return here is with a word.
: 341      0468 2      IF .DO_INDEXING
: 342      0469 2      THEN
: 343      0470 2      BEGIN
: 344      0471 2
: 345      0472 2      IF .SCA_WRD_CPEND NEQ RINTES
: 346      0473 2      THEN
: 347      0474 2      ENDWRD (FALSE, FALSE, FALSE);
: 348      0475 2
: 349      U 0476 2      %IF DSRPLUS %THEN
: 350      U 0477 2
: 351      U 0478 2      !Find out if there is a sort string,
: 352      U 0479 2      !and if so, check its validity.
: 353      U 0480 2
: 354      U 0481 2      IF .HANDLER_CODE EQL H_XPLUS OR .HANDLER_CODE EQL H_YPLUS
: 355      U 0482 2      THEN
: 356      U 0483 2      BEGIN
: 357      U 0484 2      CHSSTR ();

```

!This information is used by UNPUS (called from OUTLIN), among other

!This TSF record describes an index entry.

!Tell ENDCHR no character is pending.

!End word, but don't write a space too.


```

: 358      U 0485      |
: 359      UU 0486      |      | The sort string has now been checked and adjusted if necessary.
: 360      UU 0487      |      | Now we write the sort= and Append= strings to the attributes block.
: 361      UU 0488      |
: 362      UU 0489      |      WRATTR ();
: 363      UU 0490      |      END;
: 364      UU 0491      |
: 365      UU 0492      |      | Write an attributes block only if:
: 366      UU 0493      |      | 1) Indexing is going to the .BRN file, and
: 367      UU 0494      |      | 2) The indexed text was not null, and
: 368      UU 0495      |      | 3) This was an .XP/.YP.
: 369      UU 0496      |      | 4) Not generating a .BFL (FLIP) file.
: 370      UU 0497      |
: 371      UU 0498      |      IF .GCA_BIX          !Indexing to a file?
: 372      UU 0499      |      AND
: 373      UU 0500      |      .TSF_EXT_HL NEQ 0    !Non-null index entry?
: 374      UU 0501      |      AND
: 375      UU 0502      |      .TSF_XYPLUS        !.XP/.YP?
: 376      UU 0503      |      AND
: 377      UU 0504      |      NOT (.gca_op_dev EQL op_dev_flip)      !Not generating a .BFL?
: 378      UU 0505      |      THEN
: 379      UU 0506      |      PUTATT ();          !OK, write out the attributes.
: 380      UU 0507      |
: 381      UU 0508      |      %FI
: 382      UU 0509      |      OUTLIN (FALSE);      !Don't disturb justification algorithm
: 383      UU 0510      |      END;
: 384      UU 0511      |
: 385      UU 0512      |      INCR I FROM 0 TO SCA_SIZE - 1 DO
: 386      UU 0513      |      SCA [I] = .SCA_COPY [I];      !Restore SCA
: 387      UU 0514      |
: 388      UU 0515      |      POP_SCA;      !Restore the SAVED SCA bits.
: 389      UU 0516      |
: 390      UU 0517      |      MRA = .MRA_ADDRESS;      !Restore previous status.
: 391      UU 0518      |      TSF = .TSF_ADDRESS;
: 392      UU 0519      |      SCA_PARA_PND = .SCA_PARA_COPY;
: 393      UU 0520      |      SCA_INDENT = .SCA_INDENT_COPY;
: 394      UU 0521      |      END;      !End of MAKNDX

```

```

:
:      .TITLE  MAKNDX Processes .INDEX, .ENT, and .SUBI direct
:              ives.

```

```

:      .IDENT  \V04-000\

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```

:      .PSECT  $OWNS$,NOEXE,2

```

```

:      00000 PP_SCA: .BLKB  48

```

```

:      .EXTRN  RINTES, ATABLE, FLGT
:      .EXTRN  GCA, IRA, MRA, SCA
:      .EXTRN  TSF, XMRA, XTsf
:      .EXTRN  ENDWRD, OFT, OUTLIN
:      .EXTRN  RSKIPS, SCANT, SETCAS
:      .EXTRN  SUBXR

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:      .PSECT  $CODE$,NOWRT,2

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:      OFFC 00000

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:      .ENTRY  MAKNDX, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,- ; 0257

```

	5B	00000000'	EF	9E	00002	MOVAB	R11		
	5A	00000000G	EF	9E	00009	MOVAB	PP_SCA, R11		
	5E	F9E8	CE	9E	00010	MOVAB	SCA+144, R10		
			53	D4	00015	MOVAB	-1560(SP), SP		
	2B	08	AC	E9	00017	CLRL	XTN		0305
00000040	8F	04	AC	D1	0001B	BLBC	DO INDEXING, 2\$		0310
			21	13	00023	CMPL	HANDLER_CODE, #64		0311
	53	00000000G	EF	D0	00025	BEQL	2\$		
		00000000G	EF	D6	0002C	MOVL	GCA+168, XTN		0321
		0098	CA	D5	00032	INCL	GCA+168		0322
			05	12	00036	TSTL	SCA+296		0327
0098	CA		53	D0	00038	BNEQ	1\$		
			53	D5	0003D	MOVL	XTN, SCA+296		0329
			05	13	0003F	TSTL	XTN		0331
009C	CA		53	D0	00041	BEQL	2\$		
		00000000G	EF	9F	00046	MOVL	XTN, SCA+300		0333
00000000G	EF		01	FB	0004C	PUSHAB	IRA		0337
	57	00000000G	EF	D0	00053	CALLS	#1, RSKIPS		
	56	00000000G	EF	D0	0005A	MOVL	FLGT+112, HOLD_IND_FLAG		0339
			0A	DD	00061	MOVL	FLGT+40, HOLD_IND_EFLAG		0340
	7E	84	8F	9A	00063	PUSHL	#10		0341
00000000G	EF		02	FB	00067	MOVZBL	#132, -(SP)		
	25	00000000G	EF	E9	0006E	CALLS	#2, OFT		
	21	00	BA	E9	00075	BLBC	FLGT+52, 3\$		0343
00000000G	EF	00000000G	EF	D0	00079	BLBC	@SCA+144, 3\$		
00000000G	EF		01	D0	00084	MOVL	FLGT+124, FLGT+112		0348
	50	00000000G	EF	9E	0008B	MOVL	#1, FLGT+40		0349
00000000GF	40		03	90	00092	MOVAB	ATABLE, R0		0350
	6B	D4	BA	D0	0009A	MOVB	#3, @FLGT+124[R0]		
04	AB	D8	BA	D0	0009E	MOVL	@SCA+100, PP_SCA		0387
08	AB	DC	BA	D0	000A3	MOVL	@SCA+104, PP_SCA+4		
0C	AB	E0	BA	D0	000A8	MOVL	@SCA+108, PP_SCA+8		
10	AB	E4	BA	D0	000AD	MOVL	@SCA+112, PP_SCA+12		
14	AB	E8	BA	D0	000B2	MOVL	@SCA+116, PP_SCA+16		
18	AB	EC	BA	D0	000B7	MOVL	@SCA+120, PP_SCA+20		
1C	AB	F0	BA	D0	000BC	MOVL	@SCA+124, PP_SCA+24		
20	AB	F4	BA	D0	000C1	MOVL	@SCA+128, PP_SCA+28		
24	AB	F8	BA	D0	000C6	MOVL	@SCA+132, PP_SCA+32		
28	AB	FC	BA	D0	000CB	MOVL	@SCA+136, PP_SCA+36		
2C	AB	00	BA	D0	000D0	MOVL	@SCA+140, PP_SCA+40		
			50	D4	000D5	MOVL	@SCA+144, PP_SCA+44		
	FE80	CD40	FF70	CA40	D0	CLRL	I		0392
EF		50	0000005F	8F	F3	MOVL	SCA[I], SCA_COPY[I]		0393
			E4	BA	D4	AOBLEQ	#95, I, 4\$		
	E8	BA	96	8F	9A	CLRL	@SCA+116		0396
			0C	AA	D4	MOVZBL	#150, @SCA+120		0397
	EC	BA		01	D0	CLRL	SCA+156		0398
			00000000G	FF	DD	MOVL	#1, @SCA+124		0399
00000000G	EF			01	FB	PUSHL	@GCA+84		0400
	04	AA		01	D0	CALLS	#1, SETCAS		
	40	AA		01	D0	MOVL	#1, SCA+148		0401
	28	AA		01	D0	MOVL	#1, SCA+208		0402
	1C	AA		01	D0	MOVL	#1, SCA+184		0403
			4C	AA	7D	MOVL	#1, SCA+172		0404
			4C	AA	7C	MOVQ	SCA+220, SCA_INDENT_COPY		0406
			D8	BA	D4	CLRQ	SCA+220		0408
						CLRL	@SCA+104		0409

		D4	BA	D4	0011E	CLRL	@SCA+100	0410
	55	00000000G	EF	D0	00121	MOVL	MRA, MRA_ADDRESS	0413
	54	00000000G	EF	D0	00128	MOVL	TSF, TSF_ADDRESS	0414
	00000000G	EF	00A0	CE	9E 0012F	MOVAB	MRA_TEMP, MRA	0417
	00000000G	EF		6E	9E 00138	MOVAB	TSF_TEMP, TSF	0418
	50	00000000G	EF	D0	0013F	MOVL	MRA, R0	0420
	08	A0	03E8	8F	3C 00146	MOVZWL	#1000, 8(R0)	
			0C	A0	D4 0014C	CLRL	12(R0)	0421
	60		10	A0	9E 0014F	MOVAB	16(R0), (R0)	
	04	A0		60	D0 00153	MOVL	(R0), 4(R0)	
	52	00000000G	EF	D0	00157	MOVL	TSF, R2	0425
			51	D4	0015E	CLRL	I	
			6241	D4	00160	CLRL	(R2)[I]	
F9	51		27	F3	00163	AOBLEQ	#39, I, 5\$	
	14	A2		01	D0 00167	MOVL	#1, 20(R2)	0431
	38	A2		53	D0 0016B	MOVL	XTN, 56(R2)	0432
			6C	AA	7C 0016F	CLRL	SCA+252	0434
			74	AA	7C 00172	CLRL	SCA+260	0436
			7C	AA	D4 00175	CLRL	SCA+268	0438
0080	CA		01	8A	00178	BICB2	#1, SCA+272	0439
		0084	CA	D4	0017D	CLRL	SCA+276	0440
		008C	CA	7C	00181	CLRL	SCA+284	0441
		0094	CA	7C	00185	CLRL	SCA+292	0443
		009C	CA	D4	00189	CLRL	SCA+300	0445
		00B8	CA	7C	0018D	CLRL	SCA+328	0446
		00C0	CA	7C	00191	CLRL	SCA+336	0448
	68	AA	04	A0	D0 00195	MOVL	4(R0), SCA+248	0450
0088	CA		00G	8F	9A 0019A	MOVZBL	#RINTES, SCA+280	0451
	60		68	AA	D0 001A0	MOVL	SCA+248, (R0)	0452
00000000G	EF			00	FB 001A4	CALLS	#0, SCANT	0455
				0A	DD 001AB	PUSHL	#10	0458
	7E		84	8F	9A 001AD	MOVZBL	#132, -(SP)	
00000000G	EF			02	FB 001B1	CALLS	#2, OFT	
00000000G	EF			57	D0 001B8	MOVL	HOLD_IND_FLAG, FLGT+112	0459
00000000G	EF			56	D0 001BF	MOVL	HOLD_IND_EFLAG, FLGT+40	0460
	13	00000000G	EF	E9	001C6	BLBC	FLGT+40, -6\$	0462
	0F	00	BA	E9	001CD	BLBC	@SCA+144, 6\$	0463
	50	00000000G	EF	9E	001D1	MOVAB	ATABLE, R0	0465
00000000G	FF40		03	90	001D8	MOVB	#3, @FLGT+112[R0]	
	1F		08	AC	E9 001E0	BLBC	DO INDEXING, 8\$	0468
00000000G	8F	0088	CA	D1	001E4	CMPL	SCA+280, #RINTES	0472
			0B	13	001ED	BEQL	7\$	
			7E	7C	001EF	CLRL	-(SP)	0474
			7E	D4	001F1	CLRL	-(SP)	
00000000G	EF		03	FB	001F3	CALLS	#3, ENDWRD	
			7E	D4	001FA	CLRL	-(SP)	0509
00000000G	EF		01	FB	001FC	CALLS	#1, OUTLIN	
			50	D4	00203	CLRL	I	0512
	FF70	CA40	FE80	CD40	D0 00205	MOVL	SCA_COPY[I], SCA[I]	0513
EF	50	0000005F	8F	F3	0020E	AOBLEQ	#95, I, 9\$	
	D4	BA		6B	D0 00216	MOVL	PP_SCA, @SCA+100	
	D8	BA	04	AB	D0 0021A	MOVL	PP_SCA+4, @SCA+104	
	DC	BA	08	AB	D0 0021F	MOVL	PP_SCA+8, @SCA+108	
	E0	BA	0C	AB	D0 00224	MOVL	PP_SCA+12, @SCA+112	
	E4	BA	10	AB	D0 00229	MOVL	PP_SCA+16, @SCA+116	
	E8	BA	14	AB	D0 0022E	MOVL	PP_SCA+20, @SCA+120	
	EC	BA	18	AB	D0 00233	MOVL	PP_SCA+24, @SCA+124	

MAKNDX
V04-000

Processes .INDEX, .ENT, and .SUBI directives.
Module Level Declarations

H 12
16-Sep-1984 00:56:25
14-Sep-1984 13:07:04

VAX-11 Bliss-32 V4.0-742
[RUNOFF.SRC]MAKNDX.BLI;1

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(4)

F0	BA	1C	AB	D0	00238	MOVL	PP_SCA+28, @SCA+128
F4	BA	20	AB	D0	0023D	MOVL	PP_SCA+32, @SCA+132
F8	BA	24	AB	D0	00242	MOVL	PP_SCA+36, @SCA+136
FC	BA	28	AB	D0	00247	MOVL	PP_SCA+40, @SCA+140
00	BA	2C	AB	D0	0024C	MOVL	PP_SCA+44, @SCA+144
00000000G	EF		55	D0	00251	MOVL	MRA_ADDRESS, MRA
00000000G	EF		54	D0	00258	MOVL	TSF_ADDRESS, TSF
4C	AA		58	7D	0025F	MOVQ	SCA_INDENT_COPY, SCA+220
			04	00263		RET	

0517
0518
0520
0521

; Routine Size: 612 bytes, Routine Base: \$CODE\$ + 0000

; 395 0522 1
; 396 0523 1 END
; 397 0524 0 ELUDOM

!End of module

PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS	48	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODE\$	612	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
\$255\$DUA28:[SYSLIB]XPORT.L32;1	590	0	0	252	00:00.1
\$255\$DUA28:[RUNOFF.SRC]DSRLIB.L32;1	1248	87	6	86	00:00.3

COMMAND QUALIFIERS

; BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:MAKNDX/OBJ=OBJ\$:MAKNDX MSRC\$:MAKNDX/UPDATE=(ENH\$:MAKNDX)

; Size: 612 code + 48 data bytes
; Run Time: 00:16.4
; Elapsed Time: 00:36.0
; Lines/CPU Min: 1920
; Lexemes/CPU-Min: 18557
; Memory Used: 144 pages
; Compilation Complete

0343

AH-BT13A-SE
VAX/VMS V4.0

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